mot ersite

PRODUCT GUIDE

PRODUCT REVIEWS GUIDE | REVIEWS | ANALYSES | SPECIAL REPORTS



ISV Community Days Smart clients. Smart developers.

Sign up nov

Microsoft Partn



A challenger for iSCSI

Zetera's IP-pased transport promises fast, more affordable networked storage Storage Insider, By Mano Apicella February 18, 2005

You have probably heard by now that Dell (Profile, Products, Articles) is offering an iSCSI version of the AX100, their entry-le array for SMBs developed in cooperation with EMC (Profile, Products, Articles).

SPONSOR

IP communications. . . It's coming. But when?

Sponsored by Cisco Systems

SPONSOR

Actionable Approaches to Implementing Business Service Management (BSM)

Sponsored by BMC Software

it's an option that makes much sense, considering the target market of the AX100, and one that makes the unit more appealing to first-time networked storage buyers because it saves the cost of building a separate FC (Fibre Channel) network.

The starting price of the new model, named AX100i (of course), is \$5,000. With the inherently simpler management of iSCSI networks, the unit is less expensive to buy and to deploy than its FC version.

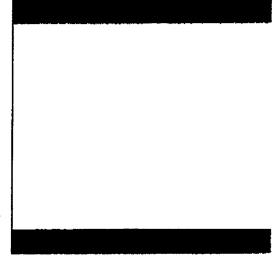
This new episode in the iSCSI vs. FC rivalry reminded me that another technology, with the promise of further lowering the cost of networked storage while maintaining exceptionally fast performance, will soon enter the tournament.

This new - and for now unnamed - storage networking technology originated from newcomer Zetera (accent is on the first syllable), which made the initial announcement in January. Zetera is not involved in manufacturing products, but its forthcoming technology has already captured the interest of companies such Bell Microproducts, Netgear, and StorCase.

In essence. Zetera has created a new and unique approach to storage networking based on block-based access to remote disk drives over Ethernet using the familiar IP protocol.

That description could fit iSCSI as well, but Zetera takes a slightly different approach that essentially makes each networked drive smarter and able to communicate independently with multiple fact, using a proprietary card that translates UDP (user datagram protocol) frames into disk commands, Zetera makes each su network citizen with its own IP address. On the computer side, device drivers and management software enable basic disk coi and management, plus connectivity to the remote drives, of course.

The first striking difference between Zetera's technology and other storage networks is the lack of controllers on target storage



SPONSORED REPORT

InfoWorld's 2005 SOA Research Report This extensive conducted by InfoWorld in Conjunction with BEA Systems i 2005 highlights the industry's current perceptions, adoptic usage of Service Oriented Architecture technology. Learn : the rising tide of SOA in this free report.

SPONSOR: BEA Systems used to a hierarchical storage structure where a nost can access disk drives only via intermediary I/O controllers that removing potential source of bottlenecks from our minds may require some adjustments in our approach.

In a Zetera storage network, each drive can be the target of unmediated, point to point, or multicast communications with a hopayload for each UDP packet can be as much as 32KB, a respectably high value that makes the technology a good candidate intensive applications such as volume copies or backups

it's interesting to note that the lack of controllers doesn't prevent the use of RAID for added performance and reliability: Accord Zetera, its streamlined architecture translates into efficient software-based RAID.

If you're asking why Zetera would multicast frames, the reason is that a single logical volume can be spread for performance, a for improved reliability, across multiple physical drives - hence the need to multicast, or essentially send the same command t addresses.

Zetera also allows you to slice a single drive into multiple volumes, which explains why each command bears an LBA (logical t address) range in addition to the IP address to identify its target.

I have seen a convincing demo of an embryonic Zetera network made up of a laptop host and a prototype box containing an II the interface card. Soon we may see conceptually similar units enter the home and SOHO computing markets, but Zetera has ambitious plans for its technology that include entry level and midtier storage.

On paper, a technology such as Zetera's that promises fast performance, easy management and contained cost should be a c in a market such as networked storage that, like the AX100 announcement suggests, is still struggling to find the right compro between performance and cost.

In practice, the success of Zetera's approach to storage networks will be determined by its acceptance by mainstream vendor: end, home computing, and SOHO markets, Zetera has no rivals - but conquering a space in the SMB and midtler storage cou struggle. Vendors of iSCSI solutions know this all too well.

Join me on The Storage Network blog to discuss this and other topics.

Mario Apicella is a senior analyst at the InfoWorld Test Center.

More of Mano Apicella's column

Newsletter Get Mario's column delivered weekly. Enter e-mail address:

SPONSORED WEBCASTS



Presented by 52io Enabling the Adaptive Enterprise with 10 Gigabit Etherner what are the main challenges you face in

today's ...

Click to Water Now

- The Power of Design
- Grand Central's Linthicum and InfoWorld's Dickerson Discuss SQA's
- IP communications is the future of business communications.
- Editorial Webcast: Four Excuses for Upgrading Your Network

SPONSORED REPORTS

InfoWorld's 2005 SOA Research Report This extensive study conducted by InfoWorld in conju BEA Systems in March of 2005 nightights the industry's curr perceptions, adoption rates, and usage of Service Oriented technology. Learn more about the rising tide of SOA in this

- InfoWorld Strategy Guide: Business Intelligence
- » MORE SPONSORED REPORTS

» MORE SPONSORED WEBCASTS

- Special Advertising Partners -

WHITE PAPERS

- Free SSL VPN Technical Primer Your users expect access to your network from places IT doesn't control: home PCs, klosks, and wireless hot spots. But with this access, security risks increase. "The SSL VPN Technical Primer" ...
- Reducing the Total Cost of Ownership in Enterprise Data Management Learn how a European bank generated \$16.5 million in savings with BMC Software, as compared with a leading competitor's "equivalent" solutions. To see the complete analysis, click here and download ...
- Business Service Management: Current Practices This white paper explores what IT professionals worldwide are saying about Business Service Management (BSM). In this valuable white paper, you'll learn how BSM solutions are being used to align IT ...
- » Are you on the shortest path to IT-business alignment?
- » Defining the Value of c-Business
- > Managing IT Investments

MORE STANDARDS WHITE PAPERS

- » The Proof Is In The Process Free White Paper Workflow automation is a key factor that distinguishes better BPM tools. Effectively mapping ...
- » CommerceQuest Extends Value on Investments

The mainframe continues to be a critical strategic platform for enterprises that rely on its ...

- Data Privacy in the Enterprise: Best Practices

This white paper offers a detailed look at the best practices for achieving data privacy, outlining ...

~ SOA Explained: The Four Abilities of a SOA Registry

Discover now a standards-based SOA registry provides visibility, reusability, adaptability

» Software License control, Windows XP/2000 Upgrades

Use your Intranet to manage Software Licenses, plan for Windows XP/2000 upgrades, do Security Audits ...

paper is available:

>> WHITE PAPERS LIBRARY

WHITE PAPERS E-MAIL ALER

Find out when the latest w

E-mail Address

WHITE PAPERS BY TOPIC

- Application developme
- Applications
- Business
- Hardware
- Networking
- Platforms
 Secunty
- Standards
- Storage
- Telecom
- Web services
- Wireless

SPONSORED LINKS

- ». Microsoft Learn, solve, and grow at Tech+Ed 2005 June 5-10, Orlando.
- » Microsoft TechEd 2005, June 5-10, Orlando. Explore solutions.
- * IBM Watch IBM's Integration Reference Architecture video
- » IBM Download the IBM Project Manager Survival Kit
- → HP >>Big Impact. Small Size. HP Laserlet 4345mfp from \$2,599.

INFOWORLD MARKETPLACE

Secure Online Data Transfer with SSL

Get thawte's new introductory guide to SSL: A discussion of the various applications of SL ...

» BS 15000 The world's 1st formal standard for ITSM

Axios were the 1st in the world to be accredited - register on our site for a white paper .

» Metadata Management Software

MetaCenter: Plug & play metadata management software for enterprise systems. Features: data ...

» Fidelia Network & Server Management software

Trend analysis, real-time alerts, management reports, proactive capacity planning, auto-discovery, ...

>> BUY A

FREE SUBSCRIPTION



Order today to get your FREE subscription to InfoWorld magazine, the weekly publication that provides indispensable product information to IT professionals

NOTE Complimentary subscriptions sent only to those applicants who qualify.

Last Name:
Title:
City:
Zip/Postal Code:
• • • • • • • • • • • • • • • • • • • •
nly

HOME NEWS TEST CENTER OPINIONS PRODUCT GUIDE TECHINDEX

About .. Aquertise

Copyright © 2005, Repnnts, Permissions, Licensing, IDG Network, Privacy Po All Rights reserved. InfoWorld is a leading publisher of technology information and product reviews on topics including viruses, phi: wireless, databases, and web services.

site: testcenter zone: article pkeys: pkey=standards;pkey=storage; skeys: skey=storage_management;skey=storage_standards; tdata: kw=; td: u=;